

# Master of Science (M.Sc.) – Zoology — Common Syllabus

Duration: 2 years (4 semesters) | Evaluation: Theory exams, Practicals, Fieldwork, Dissertation

## Course Structure

- Duration: 2 years (4 semesters).
- Each semester includes core theory papers, practicals, and electives.
- Credits: Typically 3–4 per paper.
- Evaluation: Written exams, internal assessments, field work, and dissertation/project work.

## Semester I — Suggested Papers

- Structure and Function of Invertebrates
- Cell and Molecular Biology
- Genetics and Evolution
- Biostatistics and Computer Applications
- Practical – Based on Theory Papers

## Semester II — Suggested Papers

- Structure and Function of Vertebrates
- Animal Physiology and Endocrinology
- Developmental Biology
- Ecology and Environmental Biology
- Practical – Based on Theory Papers

## Semester III — Suggested Papers

- Animal Biotechnology and Immunology
- Microbiology and Parasitology
- Comparative Animal Physiology
- Evolutionary Biology and Systematics
- Elective / Field Study / Seminar

## Semester IV — Suggested Papers

- Fish Biology and Aquaculture
- Wildlife Biology and Conservation
- Neurobiology and Animal Behavior
- Project / Dissertation / Viva Voce
- Elective Paper – (Toxicology / Endocrinology / Applied Zoology)

## Electives (Indicative List)

- Applied Zoology
- Entomology
- Wildlife Ecology and Management
- Endocrinology and Reproductive Biology
- Toxicology and Environmental Health
- Marine Biology and Fisheries Science
- Human Genetics and Biomedical Sciences

### **Notes:**

- This syllabus is based on the UGC model curriculum and leading Indian university syllabi for M.Sc. Zoology.
- Each paper generally carries 100 marks, with a 70:30 split between external and internal evaluation.
- Students must complete a dissertation or research project in the final semester.
- Fieldwork, practicals, and study tours to biodiversity hotspots and research centers are integral parts of the program.

Prepared by: ChatGPT — Common M.Sc. Zoology Syllabus Template

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